

EAGLE SHOWCASE

EXCELLENCE IN SERVICE-LEARNING

The Eagle Showcase celebrates
accomplishments in service-learning



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Annual Showcase

Georgia Southern University
Williams Center

April 9, 2019

Eagle Showcase: Excellence in Service-Learning

Office of Leadership and Community Engagement and The Honor Society of Phi Kappa Phi

2:00 PM—Reception and Opening Remarks

Thank you to the Waters College of Health Professions for contributing to this event.

3:00 PM—Award Ceremony

Participant & Faculty Recognition Mrs. Jodi Kennedy, Director, Office of Leadership and Community Engagement

Undergraduate Submissions Dr. Rebeca Ryan, Associate Professor, Department of Psychology

Graduate Submissions Dr. Mark Whitesel, Associate Dean of Students and Director for Student Advocacy

Service-Learning Facilitators Dr. Urkovia Andrews, Assistant Director for Service-Learning

3:30 PM—People's Choice Award

Graduate Poster Submissions

3D Point-Cloud Spatial Model of Business Property in Statesboro for Future Modification/ Additions

Authors: Ananya Augustine, Laquan Bell, Wesley Duncan, Sierra Lackey, Austin Mitchell, Colby Polk, Jesse Shuman, Keith Stevens, Shay Stripling, Knox Theus, Teresa Vazquez, John Williams-Rosario and Ryan Wren.

Faculty Mentor: Dr. Gustavo Maldonado and Dr. Marcel Maghiar

Courses: CENG 5435, CENG 4539 and TCM 4530

This project consists in the generation of a three-dimensional spatial model of a business property in Statesboro, GA. A group of one graduate and thirteen undergraduate students, from the Construction Management and Civil Engineering Programs at Georgia Southern University, are collaborating to complete this work as a service-learning project in Spring 2019. The final model is to be donated to the owner of El Sombrero Restaurant, at 600 Northside Dr. E #A, Statesboro. The model could be employed as a virtual surveying tool to assist in the design of future modifications or additions to the building structure or to the adjacent parking lot and grassy areas. Additionally, it could be employed for marketing purposes once it is uploaded into a website. This work not only allows students to learn and generate a real-life product, but also provide them with an opportunity to serve the community where they live and study.

Evidence-Based Communication Practices Before During and After a Hurricane

Authors: Sunmisola Alade, Chilaka Ugoji, Kandace Gibson

Faculty Mentor: Dr. Jessica Smith Schwind

Courses: Social Epidemiology and Health Equity

Effective and efficient communication between public health agencies and their external stakeholders is both critical to the success of emergency response procedures and to the communities they serve, especially during hurricane season in the United States. Given the significance of public health communication, it is important to examine the extent to which factors influence favorable communication outcomes in targeted populations. Therefore, the primary objective of our JPHCOPH Social Epidemiology service-learning project was to provide evidence-based recommendations for communication practices to the South Central Health District and the Effingham County Emergency Management Agency with a specific focus on vulnerable populations in Georgia during a hurricane. To achieve this objective, we drew from published research on historical hurricane occurrences in the United States.

Ultimately, this project will offer concrete guidance to partner agencies and help shape hurricane communication practices in our counties of interest.

Identifying Vulnerable Populations during Hurricane Season in Georgia

Authors: Reece Kakou, Maya Handberry, Kathryn Kazmierski, Jerome Garrett

Faculty Mentor: Dr. Jessica Schwind

Course: PHLD 9135: Public Health Funding and Grants

Hurricanes have short-term and long-term impacts to the public's health, particularly in the southern region of the United States. While numerous research studies were conducted to examine the relationship between hurricanes and health outcomes, it was unclear how these findings may specifically apply to vulnerable populations throughout Georgia. The aim of our service-learning project in the JPHCOPH Social Epidemiology Course was to identify socially vulnerable populations across Georgia in partnership with the South Central Health District and the Effingham County Emergency Management Agency. Our findings indicated the exacerbation of an existing medical issue, disruption of emergency medical services for the chronically ill, and power outages contributed to the common causes of death during hurricanes. Additionally, socioeconomic status, geographic location, age, education, substance abuse history, cultural isolation, and language proficiency were other significant factors for consideration. Identifying vulnerable populations help prioritize resources for humanitarian assistance in the event of a hurricane.

Increasing Parental Involvement in Academic Tutoring: Formative Research Results and Implications for Social Marketing

Authors: Eghosa Asemota, MPH, Alysia Johnson, MPH, Chevonnia Jones, MPH, Kathryn Kaufmann, MPH, Becky Larson, MS, RD, La'Dairus Madison, MPH, RD, Delores Quasie-Woode, MPH, Tanesha Slocumb, MPH, Moya L. Alfonso, PhD, MSPH, LaShai Campbell, MBA, MAcc

Faculty Mentor: Dr. Moya Alfonso

Course: Communication and Advocacy

Restoring the Breach is a faith-based organization with the aim of helping all citizens and families, regardless of their financial or religious status, build the life they want for themselves. The purpose of this research is to understand barriers and facilitators to parental involvement in academic tutoring among parents and to develop a social marketing plan. Six individual interviews were used to assess factors related to a parent's involvement in their child's tutoring program. A doer/nondoer design was used. Data were analyzed using the constant comparative method. Results will be categorized by the four P's of social marketing (product, price, place, promotion). A social marketing plan designed to increase parental involvement will be detailed. Using social marketing to increase parental involvement in their students' tutoring and environment improves Restoring the Breach's ability to address factors related to the after school tutoring program

Virtual 3D Modeling of Two Historic Barns in Bulloch County, GA (One Northwest of Statesboro and the Botanic Garden Barn)

Authors: Ananya Augustine, Keertan Akshar, Dhruv Patel, Mariah Peart

Faculty Mentor: Dr. Gustavo Maldonado and Dr. Marcel Maghiar

Course: CENG 7895 Special Problems in Laser Scanning

This service-learning work is part of a larger project consisting in laser scanning and producing virtual, three-dimensional, computer-based, detailed models of eight (8) historic barns in Bulloch County, GA. The resulting spatial models (point clouds) will assist in the historical preservation of these now delicate and aging structures. In particular, this authoring group of students are currently working and focusing on two of those eight barns: (i) Dave & Carrie Welter's Mule Barn, near the Northwest side of Statesboro, and (ii) Dan Bland's Barn at Georgia Southern University Botanic Garden. After completion, the models will be donated to Dr. Brent W. Sharp who represents both, the Bulloch County Historical Society and the Georgia Southern Museum.

This project gave our Civil Engineering and Construction team an opportunity to assist and serve our community in a service learning format while understanding and learning state-of-the-art laser scanning techniques.

Undergraduate Poster Submissions

Bethany's Feud: An Interactive Project

Authors: Coriona Matthews, Courtney Watson, Anna Edwards, Mikayla Jordan, and Geneva Kennedy

Faculty Mentors: Dr. Jennifer Zorotovich

Course: CHFD 3136- Adult Development & Late Life

Bethany's feud is an activity design by students from Dr. Zorotovich's Older Adult and Development and Late Life class in the CHFD department. The goal of the project was to design an activity that could target an array of older adults and be used in the field at service agencies. For this project, we proposed an activity called Bethany's Feud, a trivia game based on the classic game show Family Feud. Originally intended to be presented at The Lodge at Bethany, the activity functions similarly to the game show with minor modifications to the design. This project discusses aspects of development unique to late adulthood and provides an activity that can be used to support older adult's distinct strengths and address potential areas of need.

Fidget Balls can Benefit Student's with Exceptional Needs

Authors: Casey Carroll

Faculty Mentors: Dr. Karin Fisher

Course: SPED 4231

Student's with exceptional needs require specific accommodations and modification in the educational environment in order for them to perform at the same level as their peers who do not have exceptional needs. Students who suffer from attention or processing disorders may benefit from accommodations like fidget balls. At the Georgia Southern STEM festival, I provided the public with information about the benefits of fidget balls and provided the unique chance for them to make their own. This service learning project allowed the public them to take home their own fidget ball as well as helped them to become more aware of the needs some student's with exceptional needs require in order to be successful in an educational environment.

LiDAR-Based Modeling of Allen E. Paulson Stadium at Georgia Southern University

Authors: Chandler Cross, Josh Buchanan and Mariah Peart

Faculty Mentors: Dr. Gustavo Maldonado and Dr. Marcel Maghiar

Courses: CENG 4539 Sr Project & TCM 4530

This service-learning activity is a continuation of the work initiated in January 2018 by other students. It consists in generating a virtual, 3D model of Georgia Southern's football stadium. This time, the model includes the stadium itself plus all its surrounding areas. The current work is being completed by two groups of students. One in Civil Engineering and other in the Construction Management program. The model is produced via a state-of-the-art, LiDAR instrument. It accurately captures existing conditions into a large cloud of points. Currently, 150 laser scans have been completed. The final model will be donated to the Georgia Southern Athletic Department. It can be employed to obtain accurate virtual distance measurements throughout the stadium for remodeling or expansion purposes. Additionally, fly-through video clips could potentially be used for advertisement or public entertainment. Authors' learning and motivation was catalyzed by the fact this work represents service to their university.

Service-Learning through Costume Design

Authors: Makenzie Miller, Rebecca Botte

Faculty Mentors: Dr. Addie Martindale

Course: FMAD4231

The Averitt Center for the Arts is a non-profit providing arts opportunities for our community. Each year they hold multiple theater productions for children to participate in as part of their Jr. Company. This year's performances included the Greek tragedy, Orestes and the musical Beauty and the Beast. These performances required unique costumes for each child actor. In order to gain costume design experience and give back to our community, student designers from the FMAD program worked to develop and construct the production's costumes. These experiences helped us learn to work as a team and an understanding of the extensive work required to costume a production. This invaluable opportunity allowed us to practice our skills and to see our designs come to life while giving back to the community. Our service learning partnership had an impact on each designer and we felt the true value of our work through the appreciation of the children we worked with.

StemFest & GreenFest Service Learning

Authors: Anastasia Benca, Brianna Ladin

Faculty Mentor: Dr. Addie Martindale

Course: Design Analysis 2

During our volunteer time at StemFest and GreenFest, we were able to reach out the the community and share our love of fashion design and how exciting it can be. It was fun and rewarding to lead activities to demonstrate how math skills are used in apparel design and raise awareness about apparel sustainability. At StemFest we taught children how to drape on half-scale dress forms and how apparel design practices heavily involve math. While at GreenFest, we demonstrated how to create sustainable accessories from bracelets to headbands using fabric waste with both children and adults in Statesboro. Overall both service learning experiences were extremely eye-opening to how impactful teaching others can be to the learning process and the importance of sharing with others the skills and practices used in the fashion industry.

Virtual 3D Modeling of Two Historic Barns in Bulloch County, GA: Both Barns are Southeast of Statesboro

Author: Knox Theus, Keith Stevens, Tony Washington and Mariah Peart

Faculty Mentors: Dr. Gustavo Maldonado and Dr. Marcel Maghiar

Course: CENG 5435 Introduction to Terrestrial Lidar

This service-learning work is part of a larger project consisting in laser scanning and producing virtual, three-dimensional, computer-based, detailed models of eight (8) historic barns in Bulloch County, GA. The resulting spatial models (point clouds) will assist in the historical preservation of these now delicate and aging structures. In particular, this authoring group of students is currently working and focusing on two of those eight barns: (i) Betty Rushing's Lattice Barn, between Statesboro and Brooklet, and (ii) Gerald Edenfield's barn, southeast of Brooklet. After completion, the models will be donated to Dr. Brent W. Tharp who represents both, the Bulloch County Historical Society and the Georgia Southern Museum. This project gave our Civil Engineering and Construction team

an opportunity to assist and serve our community in a service-learning format while understanding and learning state-of-the-art laser scanning techniques and its post-processing tasks.

**Virtual 3D Modeling of Two Historic Barns in Bulloch County, GA:
Both barns are southwest of Statesboro**

Authors: Benjamin Moore, Thomas Graham, Patrick Sink and Mariah Peart

Faculty Mentors: Dr. Gustavo Maldonado and Dr. Marcel Maghiar

Course: CENG 5435 Intro to Terrestrial Lidar

This service-learning work is part of a larger project consisting in laser scanning and producing virtual, three-dimensional, computer-based, detailed models of eight (8) historic barns in Bulloch County, GA. The resulting spatial models (point clouds) will assist in the historical preservation of these now delicate and aging structures. In particular, this authoring group of students is currently working and focusing on two of those eight barns: (i) Bonnie Dekle Howard's Barn, and (ii) Remer Dekle's Barn. Both barns are southwest of Statesboro, near Register, GA. After completion, the models will be donated to Dr. Brent W. Tharp who represents both, the Bulloch County Historical Society and the Georgia Southern Museum. This project gave our Civil Engineering and Construction team an opportunity to assist and serve our community in a service-learning format while understanding and learning state-of-the-art laser scanning techniques and their post-processing tasks.

Many thanks to our judges:

Dr. Yelena Tarasenko, Associate Professor, Department of Biostatistics, Epidemiology, and Environmental Health Services

Dr. Virginia Wickline, Assistant Professor, Department of Psychology

Ms. Swaha Pattanaik, graduate student, DrPH in Community Health

Celebrating Excellence in Service-Learning

According to Georgia Southern's mission statement, "The University provides transformative learning opportunities to meet the needs of a diverse student population through its legacy of commitment to academic excellence and personal attention. Through the shared resources of its multiple locations, the University creates vibrant learning environments that foster an inclusive, student-centered culture of engagement designed to prepare students for lifelong service as scholars, leaders, and responsible stewards of their communities." In keeping with the mission, through numerous service-learning activities, students and faculty contribute to the university and local community. In an effort to celebrate such contributions, the Office of Leadership and Community Engagement, in partnership with The Honor Society of Phi Kappa Phi, presents the annual Eagle Showcase: Excellence in Service-Learning. All Georgia Southern University students, graduate and undergraduate, were invited to showcase their service-learning projects. We hope this showcase will connect you to meaningful service-learning opportunities and encourage you to build partnerships and address genuine community needs.

A Special Thanks to Our Sponsors



Showcase Organizing Committee

Dr. Urkovia Andrews, Assistant Director of Service-Learning
Dr. Padmini Shankar, Professor, Nutrition and Food Science
Mr. Jonathon Hall, Graduate Assistant of Service-Learning